

IDS - 01/08/2007

Approved for use through 03/31/2007. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

2

Complete if Known

Application Number	10/783,175
--------------------	------------

Filing Date	February 19, 2004
--------------------	-------------------

First Named Inventor	Mark S. Wallace
-----------------------------	-----------------

Art Unit	2611
----------	------

Examiner Name	Young Toi Tse
---------------	---------------

Attorney Docket Number	040159
------------------------	--------

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

/Young Tse/

Date Considered

01/21/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IDS - 01/08/2007

PTO/SB/08B (09-08)
 Approved for use through 03/31/2007. OMB 0651-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/783,175
				Filing Date	February 19, 2004
				First Named Inventor	Mark S. Wallace
				Art Unit	2611
				Examiner Name	Young Toi Tse
Sheet	2	of	2	Attorney Docket Number	04159

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
YT	4	BRUHL et al., "Investigation of Front-end Requirements for MIMO-Systems Using Dowlink pre-Distortion," The Institution of Electrical Engineers, European Personal Mobile Communications Conference, London, Great Britain, pp. 472-476 (2003) XP-002330243	
	5	BOURDOUX et al., "Non-reciprocal transceivers in OFDM/SDMA systems: Impact and Mitigation," IEEE Radio and Wireless conference, pp. 183-186 (2003) XP-010656728	
	6	BEM et al., "Smart antennas for mobile communications systems," International Conference on Microwaves, Radar and Wireless communications, Institute of Telecommunications and Acoustics, Wroclaw University of Technology, vol. 2, pp. 120-130 (2000) XP-01010537479	
	7	LIU et al., "OFDM-MIMO WLAN AP Front-end Gain and Phase Mismatch Calibration," IEEE Radio and Wireless Conference, pp. 151-154 (2004) XP-002330244	
YT	8	JUNGNICKEL et al., "A MIMO system with reciprocal transceivers for the time-division duplex mode," Antennas and Propagation Society Symposium, IEEE, vol. 2, pp. 1267-1270 (2004) XP-010721570	

Examiner Signature	/Young Tse/	Date Considered	01/21/2007
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.